

Sasol's C12-C13 Alcohols

SASOL
reaching new frontiers



Technical Bulletin

Description

Sasol North America strives to offer our customers the greatest variety of alcohols to fulfill their formulation needs. When looking for hydrophobic raw materials in the C12-C13 carbon range, Sasol offers a host of products including 1-dodecanol (lauryl alcohol), Iso-tridecanol, 1-tetradecanol (myristyl alcohol), branched C12-C13 alcohol blends, and even the Guerbet alcohol 2-butyloctanol. Though all of these products have similar molecular weights, the **difference in their chemical structure yields significant variation in their physical properties** providing formulators a means to develop their own unique materials.

Properties

Typical physical properties are listed in the table below. Actual properties will vary from lot to lot.

Typical Properties	ALFOL® 12	MARLIPAL® O13	SAFOL® 23	LIAL® 123A	ISALCHEM® 123A	ISOFOL® 12
Appearance at 23°C	Clear to Cloudy Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid	Clear Liquid
Melting Point, °C	23	-25	0 – 12	5 – 10	-45	<-30
Average Molecular Weight	186	201	194	194	194	186
Total Alcohol, wt. %	>98.5	>99	>99.5	>98	>98	>97
Alcohol Distribution, wt. %						
C10OH and lower	<2	--	--	--	--	--
C11OH and lower	--	--	<1	<1	<1	--
C12OH	>98	--	51 – 57	38 – 48	37 – 48	>97
C13OH	--	100	43 – 49	52 – 62	52 – 63	--
C14OH and Higher	<2	--	<4*	<3*	<4*	--
Total Branched Alcohol, wt. %	0	100	50	54	>92	100
Hydroxyl Number, mg KOH/g	295 – 302	270 – 290	284 – 294	287 – 293	286 – 293	286 – 305
Density, g/ml at 20°C	0.833	0.843	0.83	0.834	0.835	0.833
Flash Point, °C	130	123	130	>125	137	>120

Physical State at Ambient Temperature (23°C)

We put the branching where you want it to get the melting point you need!!



ALFOL® 12 MARLIPAL® O13 SAFOL® 23 LIAL® 123A ISALCHEM® 123A ISOFOL® 12

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